QUANTITIES

FOR DESIGN INFORMATION ONLY

(FOR CONCRETE ORDER FORMS)

CONCRETE VOLUME

BOX WIDTH IS 4' FT TO 6' FT AND DEPTHS OF 4' FT TO 12' FT

CONCRETE VOLUME (CU YDS) = (D X W X H) X 0.88

WHERE:

D = DEPTH
W = WIDTH
H = HEIGHT

TO CALCULATE VOLUME OF CONCRETE OPI (PIV) HOLES VOLUME OF HOLES

(CU YDS) = (PIV) D x W X H X 0.88

WEIGHT OF REINFORCING STEEL

BOX WIDTH IS 4' FT UP TO 6' FT AND DEPTHS IS 4' FT TO 12' FT

MINIMUM WEIGHT (LBPS) = (4 X 10'^2) X 10.89 + (D X 8.74) X 10.89

DESIGN DATA

1. IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN AND INTERIM SPECIFICATIONS

2. STRUCTURAL STEEL:
   - TYPICAL STEEL
   - MINIMUM PROPERTIES
     - f_y = 36,000 psi
     - f_y = 60,000 psi
     - t = 8,000 psi

3. CONCRETE:
   - CLASS AA (W) CONCRETE
   - COAT CONCRETE WITH APPROVED NON-SHRINK GROUT TO SEAL OPENING

NOTES

1. USE PIPE IN BOX OPENING. USE APPROVED NON-SHRINK GROUT TO SEAL OPENING AND PINE OR USE APPROVED PIPE SIDE MANUFACTURER'S PIPES PIPES

2. SEAT GRATE 1 AND CB 3 FOR BOX ELEVATIONS FOR CURB AND GUARD APPLICATION. INCLUDE CONCRETE QUANTITIES FOR CURB AND GUARD IN ROADWAY QUANTITIES.

3. PLACE STOP BUSHING 3 FT BELOW FINISH GRADE AND PLACE ADDITIONAL STEPS ACCORDING TO STE DING OF 6.

4. USE X-INCH LONG, 3-INCH-DIA. CONCRETE PIPES OR CLAYS AND GUARD TO ATTACH CURB AND GUARD TO BOX.

5. WHICH USES THE BOX AS A MIDDLE, SET CURB(S) OF THE BOX TO MATCH PAVEMENT FINISH GRADE AND PLACE ADDITIONAL BUSHING BEHIND CURB AND GUARD. FINISH GRADE AND CURB IS NOT Flush WITH PAVEMENT; DOES NOT EXCEED 1/4 INCH CURB DEPRESSION.